

**REMARKS****Petition for Extension of Time Under 37 CFR 1.136(a)**

It is hereby requested that the term to respond to the Examiner's Action of January 13, 2009 be extended one month, from April 13, 2009 to May 13, 2009.

The Commissioner is hereby authorized to charge the extension fee, and any additional fees associated with this communication to Deposit Account No. 50-4364.

Claims 11 to 16, 18 to 23, 25, 26, 28, 29, 31 to 48, 51 to 54, 56, 57, 59 and 61 to 64 are pending in the application, and the Examiner rejected all claims.

Various claim amendments have been made to improve the form of the claims without affecting the substance. Any substantive amendments are discussed specifically below.

**Claim Objections**

1. On page 2 of the Office Action, the Examiner objected to claim 18 by stating:  
“(1). It is not clear what is considered to be the "function of the periodicity interval of the hologram"? as recited in claim 18.”

A technical explanation with respect to this issue is given on pages 17 to 19 of the Reply to the Office Action filed on November 6, 2008, to which reference is made herein. From this explanation, as well as from the disclosure of the application as originally filed, it is clear that the size of the viewing window depends on the *extension of* the periodicity interval of the hologram bearing medium. Therefore, claim 18 has been amended so that this is clearly expressed: the computer calculates the size of the viewing window in dependence of the extension of the periodicity interval of the hologram bearing medium. Applicant submits that this amendment, coupled with the explanation, overcomes this objection.

2. The Examiner states:

“(2). It is not clear how does the "hologram-bearing medium controls phase, amplitude or phase and amplitude". Firstly, the phase and amplitude of what? Secondly how does the hologram medium control it? Does this mean the hologram encoded on the medium controls the phase and amplitude or the medium by itself controls the phase and amplitude?”

The hologram-bearing medium controls the phase of light of the light source; the amplitude of light of the light source; or the phase *and* the amplitude of light of the light source interacting with the hologram-bearing medium. This is apparent from the Figures 1 to 3 and/or 5 of the instant application as well as from the detailed description thereof. Claims 62-64 have been amended to make these aspects clear; although not objected to by the Examiner, similar amendments are made also to claims 38-40. Accordingly, this objection is overcome.

Applicant, therefore, requests that these objections be withdrawn and the claims be allowed.

### **The Double Patenting Rejections**

On pages 8 through 11 of the Office Action, the Examiner made various provisional obviousness-type double patenting rejections of Claims 11 to 16, 18 to 23, 25, 26, 28, 29, 31 to 48, 51 to 54, 56, 57, 59 and 61 to 64, as follows:

Over claims 1-22 of copending Application No. 11/427,629

Over claims 1-21 of copending Application No. 11/313,989

Over claims 1-24 of copending Application No. 11/427,645

Over claims 1-23 of copending Application No. 11/427,644

Over claims 1-19 of copending Application No. 11/937,991

The Examiner additionally made an obviousness-type double patenting rejection of Claims 11-6, 18-48 and 50-64 over claims 1-19 of U.S. Patent No. 7,315,408.

Applicant will, as appropriate, file one or more Terminal Disclaimers to overcome these rejections upon an indication of allowable subject matter.

**Summary**

In view of the foregoing amendments and remarks, applicant respectfully requests entry of the amendments, favorable reconsideration of the application, withdrawal of all rejections and objections and that claims 11 to 16, 18 to 23, 25, 26, 28, 29, 31 to 48, 51 to 54, 56, 57, 59 and 61 to 64 be allowed at an early date and the patent allowed to issue.

The Commissioner is hereby authorized to charge the extension fee and any additional fees associated with this communication to applicant's Deposit Account No. 50-4364.

Respectfully submitted

May 13, 2009

Date

/Mark D. Simpson/

Mark D. Simpson, Esquire  
Registration No. 32,942

SAUL EWING LLP  
Centre Square West  
1500 Market Street, 38<sup>th</sup> Floor  
Philadelphia, PA 19102-2189  
Telephone: 215 972 7880  
Facsimile: 215 972 4169  
Email: MSimpson@saul.com